

Claims

We claim:

1. Lighting apparatus for a spray booth, the spray booth having walls and a ceiling extending therebetween, wherein said lighting apparatus includes at least a first lighting assembly and a second lighting assembly; said first and second lighting assemblies being located adjacent said ceiling and spaced inwardly of said walls; and said lighting assemblies being convergently oriented.
2. The lighting apparatus of claim 1, wherein at least said first lighting assembly is obliquely angled relative to the ceiling.
3. The lighting apparatus of claim 2 wherein the said first lighting assembly has a normal vector, and said normal vector is oriented at an angle of between 5 and 60 degrees from vertical.
4. The lighting apparatus of claim 2, wherein the oblique angle is about 10 to 15 degrees from the vertical.
5. The lighting apparatus of claim 1, wherein the first and second lighting assemblies are spaced inwardly from the walls at a distance of between about 2 feet and about 8 ft.
6. The lighting assembly of claim 5 wherein said distance is between $3 - \frac{1}{2}$ and $4 - \frac{1}{2}$ ft.
7. The lighting apparatus of claim 1 wherein the spray booth has a floor spaced from and located below the ceiling, and light emitted from said lighting assemblies converges at a height between said floor and said ceiling.
8. The lighting apparatus of claim 1 wherein said first lighting assembly is selected from the set of lighting assemblies consisting of fluorescent light fixtures, halogen light fixtures, and incandescent light fixtures.
9. The lighting apparatus of claim 1, wherein at least one of the first and second lighting assemblies includes a light reflector, said light reflector being obliquely angled relative to the ceiling.

10. The lighting apparatus of claim 1, said lighting apparatus further comprising a side light assembly, said side light assembly being located adjacent walls and light from said side light assembly being directed in a generally horizontal direction.

11. A spray booth comprising a combination of the lighting apparatus of claim 1 and a ventilation system, wherein said walls include a first wall running more closely adjacent to said first lighting assembly than any other wall, and an opposed second wall running more closely adjacent to said second lighting assembly than any other wall, and said ventilation system includes venting mounted between said first lighting assembly and said first wall.

12. The spray booth of claim 11 wherein said ventilation system includes venting mounted between said second lighting assembly and said second wall.

13. The spray booth of claim 11 wherein said ventilation system includes venting mounted between said first and second lighting assemblies.

14. The spray booth of claim 12 wherein said ventilation system includes venting mounted between said first and second lighting assemblies.

15. The spray booth of claim 11 wherein said spray booth has a floor opposed to said ceiling, said walls standing upwardly of said floor, and said ventilation system includes inlet venting nearer to said ceiling than said floor, and outlet venting nearer to said floor than said ceiling.

16. The spray booth of claim 11 wherein said spray booth has a floor opposed to said ceiling, said walls standing upwardly of said floor, and said ventilation system includes outlet venting nearer to said ceiling than said floor, and inlet venting nearer to said floor than said ceiling.

17. A spray booth comprising a combination of the lighting apparatus of claim 1 and a ventilation system, wherein said walls include a first wall running more closely adjacent to said first lighting assembly than any other wall, and an opposed second wall running more closely adjacent to said second lighting assembly than any other wall, and said ventilation system includes inlet venting mounted between said first lighting assembly and said first wall, between said second lighting assembly and said second wall, and between said first lighting assembly and said second lighting assembly, and exhaust venting mounted distant from said ceiling.

18. A spray booth comprising a combination of the lighting apparatus of claim 1 and a ventilation system, said ventilation system being operable to urge overspray away from said lighting system.

19. A paint spray booth comprising a combination of the lighting apparatus of claim 1 and a ventilation system, said ventilation system including inlet vents mounted in a straddling arrangement relative to said lighting apparatus, and outlet vents mounted distant from said ceiling, said ventilation system being operable to introduce ventilating gas into said spray booth adjacent said lighting apparatus, and to urge ventilating gas introduced adjacent said lighting apparatus to move toward said outlet vents.

20. The paint spray booth of claim 18 wherein said ventilating system includes at least one vent mounted between said first and second lighting apparatus.

21. The paint spray booth of claim 18 wherein said paint booth has a central floor region on which to rest objects to be painted, said floor region having a footprint, said footprint having a width; said first lighting apparatus has a length oriented to run generally lengthwise relative to said footprint, said second lighting apparatus has a length oriented to run generally lengthwise relative to said footprint.

22. The paint spray booth of claim 21 wherein said first and second lighting assemblies have respective lengthwise centerlines, said lengthwise centerlines being spaced apart a distance greater than said width of said footprint.

23. The paint spray booth of claim 21 wherein said first and second lighting assemblies are symmetrically mounted relative to said footprint.

24. The lighting apparatus of claim 1 wherein, when viewed in a cross-section across the spray booth, said first lighting apparatus emits light at a maximum intensity along a first vector, said second lighting apparatus emits light at a maximum intensity along a second vector, and said first and second vectors intersect.

25. The lighting apparatus of claim 24 wherein the vectors intersect at a height greater than floor level.